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define: time to live

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## Definitions of Time to Live on the Web:

An internet header field which indicates the upper bound on how long this internet datagram may exist.  
[www.freesoft.org/CIE/RFC/791/17.htm](http://www.freesoft.org/CIE/RFC/791/17.htm)

A field in the IP header which indicates how long this packet should be allowed to survive before being discarded. It is primarily used as a hop count.  
[www.red.net/glossary/t.php](http://www.red.net/glossary/t.php)

A field in the IP header which indicates how long this packet should be allowed to survive before being discarded. It is primarily used as a hop count. See also: Internet Protocol. [Source: MALAMUD] [RFC 1983]  
[www.direct.bigpond.com/glossaryL-Z.cfm](http://www.direct.bigpond.com/glossaryL-Z.cfm)

The field used in a protocol (such as DNS or ICMP) to indicate how many more network hops are allowed before the packet is dropped (discarded) (and, in terms of a TCP protocol as opposed to a UDP protocol) an error returned to the sender.  
[www.clock.org/~jss/glossary/t.html](http://www.clock.org/~jss/glossary/t.html)

Length of time that a response is to be cached and considered valid by the requesting D-proxy.  
[www.cisco.com/en/US/products/sw/conntsw/ps4038/products\\_configuration\\_guide\\_chapter09186a00800ca812.html](http://www.cisco.com/en/US/products/sw/conntsw/ps4038/products_configuration_guide_chapter09186a00800ca812.html)

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define: virtual private network

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Private network built atop a public network. Hosts within the private network use encryption to talk to other hosts; the encryption excludes hosts from outside the private network even if they are on the public network.  
[www.visi.com/crypto/inet-crypto/glossary.html](http://www.visi.com/crypto/inet-crypto/glossary.html)

A private communications network existing within a shared or public network platform (i.e. the Internet).  
[www.stallion.com/html/support/glossary.html](http://www.stallion.com/html/support/glossary.html)

A private network within a public network, usually on the Internet. Privacy for the virtual network is achieved through encryption and provides a less expensive option than using dedicated lines. See PPTP.  
[www.walthowe.com/glossary/v.html](http://www.walthowe.com/glossary/v.html)

A private network that is configured within a public network. VPNs enjoy the security of a private network via access control and encryption, while taking advantage of the economies of scale and built-in management facilities of large public networks. Today, there is tremendous interest in VPNs over the Internet.  
[www.daleen.com/company/glossary.htm](http://www.daleen.com/company/glossary.htm)

A virtual private network is what it says-a private network of computers that's partially connected over public phone lines. Encryption and secure protocols permit VPN users to transmit data secure in the knowledge that the data will be difficult, if not impossible, to intercept by unauthorized third parties. This technology allows VPN users to communicate with the assurance of total privacy and safety of data and information while cutting the cost of traditional leased telephones lines by 90-95%.  
[www.changewave.com/Glossary.html](http://www.changewave.com/Glossary.html)

A technical strategy for creating secure connections, or tunnels, over the Internet.  
[cms.hhs.gov/glossary/default.asp](http://cms.hhs.gov/glossary/default.asp)

A private data network that makes use of the public telecommunication infrastructure, maintaining privacy through the use of a tunnelling protocol and infrastructure procured. The idea of the VPN is to give the company the same capabilities at much lower cost by using the shared public infrastructure rather than a private one. Phone companies have provided secured shared resources for voice messages. A virtual private network makes it possible to have the same secure sharing of public resources for data. Companies today are looking at using a private virtual network for both extranets and wide-area intranets.  
[www.oberthurusa.com/pns-sc-sc101-gloss.asp](http://www.oberthurusa.com/pns-sc-sc101-gloss.asp)

A secure, encrypted private Internet connection.  
[www.e-formation.co.nz/glossary.asp](http://www.e-formation.co.nz/glossary.asp)

(VPN) A private network that is configured within a public network. VPNs enjoy the security of a private network via access control and encryption, while taking advantage of the economies of scale and built-in management facilities of large public networks.  
[www.dcedc.com/telecommunications/glossary.htm](http://www.dcedc.com/telecommunications/glossary.htm)

(VPN) Allows two or more offices to appear as one secure network through the use of strong encryption. It is a network established for the exclusive use of a single organization or business enterprise with an emphasis on privacy and security.  
[www.emcs.ca/glossary.htm](http://www.emcs.ca/glossary.htm)

(VPN) Similar to Remote Access Service, this solution provides secure, encrypted access to corporate networks from clients connecting through the Internet.

[www.microsoft.com/technet/prodtechnol/sbs/reskit/sbrk2000/sbrkglo.asp](http://www.microsoft.com/technet/prodtechnol/sbs/reskit/sbrk2000/sbrkglo.asp)

A data network that uses the public telecommunications infrastructure, but maintains privacy through the use of a tunneling protocol and security procedures. A VPN gives a company the same capabilities as a system of owned or leased lines to which that company has exclusive access. However, costs are much lower because the VPN uses the shared public infrastructure rather than exclusive line access.

[www.intel.com/network/csp/solutions/ngn/7643gls.htm](http://www.intel.com/network/csp/solutions/ngn/7643gls.htm)

The use of encryption to provide a secure connection through which to send data from one computer to another, over an otherwise insecure network, like the Internet.

[www.mag-net.com/internet/support/glossary.php](http://www.mag-net.com/internet/support/glossary.php)

is a collection of technologies that allow you to create secure private networks. You can control you can log into your network, allowing you to share business resources over a secure connection. More info...

[www.rpro.com/support/words.asp](http://www.rpro.com/support/words.asp)

Enables IP traffic to travel securely over a public TCP/IP network by encrypting all traffic from one network to another. A VPN uses "tunneling" to encrypt all information at the IP level.

[www.cisco.com/univercd/cc/td/doc/product/iaabu/pix/pix\\_60/ipsec/glossary.htm](http://www.cisco.com/univercd/cc/td/doc/product/iaabu/pix/pix_60/ipsec/glossary.htm)

A VPN only works between the client and NFC. It can work from Desktop to NFC or Desktop to other firewalls, but there must be a Checkpoint or IBM firewall. This is a secure connection. VPN is used for telecommuting with NFC. The Entrust product for VPN connectivity is Access.

[sig.nfc.usda.gov/pki/glossary/glossary.html](http://sig.nfc.usda.gov/pki/glossary/glossary.html)

A popular type of extranet. By using public pathways, such as the Internet, a VPN can be a cheaper alternative to a privately wired network, yet it can be configured for controlled access to outside individuals via tunneling software. One drawback: Internet VPNs are susceptible to delays during peak usage, so a quality of service guarantee becomes an important issue.

[pip.med.umich.edu/glossary/index21.htm](http://pip.med.umich.edu/glossary/index21.htm)

An Internet-based virtual private network (VPN) uses the open, distributed infrastructure of the Internet to transmit data between corporate sites. This is an advantage with larger businesses that may have locations at different places throughout the world. This would allow them to use common resources.

[www.intellicominc.com/Glossary.htm](http://www.intellicominc.com/Glossary.htm)

Enables IP traffic to possess and ensure secure connectivity over a public TCP/IP network by encrypting all traffic from one network to another. A VPN uses tunneling to encrypt all information at the IP level.

[www.videologyinc.com/glossary/network\\_glossary.html](http://www.videologyinc.com/glossary/network_glossary.html)

A collection of host parties that have implemented protocols to exchange information securely, generally over the Internet or other public network.

[ts.jpmorgan.com/pages/jpmorgan/cash/\\_article\\_&ArtName=jpmorgan/cash/a/ecommerceglossary](http://ts.jpmorgan.com/pages/jpmorgan/cash/_article_&ArtName=jpmorgan/cash/a/ecommerceglossary)

A secure network that utilizes telecommunications lines from a telephone service provider and enables there to be a connection created when a transmission needs to take place and terminated once the transmission has been completed and enables the user to scale bandwidth up and down as needed.

[myphiliputil.pearsoncmg.com/student/bp\\_jessup\\_ist\\_1/JessupGlossary.html](http://myphiliputil.pearsoncmg.com/student/bp_jessup_ist_1/JessupGlossary.html)

An IP connection between two sites over a public IP network that has encryption so only the source and destination can decode the traffic packets. A VPN enables a public network to be used for secure private transmissions.

[www.netilla.com/mkt/glossary.html](http://www.netilla.com/mkt/glossary.html)

usually refers to a network in which some of the parts are connected using the public Internet, but the data sent across the Internet is encrypted, so the entire network is "virtually" private.

[www.emoderndesign.com/modern\\_design\\_glossary.html](http://www.emoderndesign.com/modern_design_glossary.html)

refers to a network in which some of the parts are connected using the public Internet but the data sent across the Internet is encrypted, so the entire network is "virtually" private.

[www.pendergast.k12.az.us/dist/westwind/Network%20Diagrams/glossarynt.htm](http://www.pendergast.k12.az.us/dist/westwind/Network%20Diagrams/glossarynt.htm)

A special combination of encryption, authentication, and protocol tunneling technologies that provide secure transport of private communications over the public Internet. Most enterprises rely, on third-party companies to host their VPNs.

[ecommerce.etsu.edu/Glossary.htm](http://ecommerce.etsu.edu/Glossary.htm)

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